

4-1 Graphing Equations in Slope-Intercept Form

What You'll Learn

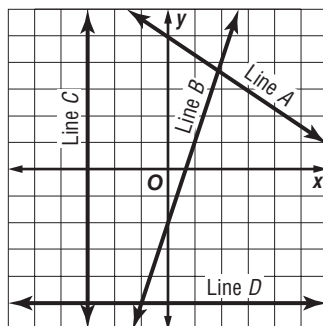
Skim Lesson 4-1. Predict two things that you expect to learn based on the headings and the Key Concept box.

1. _____

2. _____

Active Vocabulary

Review Vocabulary Identify the slope and y-intercept of lines A, B, C, and D. (Lessons 3-1 and 3-3)



Line	Slope	y-intercept
A		
B		
C		
D		

New Vocabulary Label the diagram using the terms at the left.

slope-intercept form ►

y-intercept ►

slope ►

independent variable ►

dependent variable ►

$$y = mx + b$$

Lesson 4-1 *(continued)***Main Idea****Details****Slope-Intercept Form**

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Complete each step in the chart below. Add details to each step for clarification.

Write the equation in _____ form, if needed.



Identify the _____ and the _____.



Plot the _____ on a coordinate plane.



Plot another _____ using the _____.

Modeling Real-World Data

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Write a linear equation to determine the price of gas after the year 2008, if the price of gas in 2008 is \$3.16 per gallon and the price increases by \$0.55 per year.

slope or rate of change	y-intercept or starting value	linear equation $y = mx + b$